Textbooks covering the renormalization group


The renormalization group


Onset of chaos, turbulence


Crackling noise, depinning, and avalanches


Surfaces and growing interfaces


Flocking and active matter


Turbulence

Conformal field theory and SLE


Disordered systems


Networks

Glasses


Quantum phase transitions


Fracture


Cell membranes


Plastic flow in metals


**Fermi liquid theory and the RG**


**Random matrix theory**


**Abrupt transitions**


**Infinite and strong disorder RG**

Crossover scaling


Droplet breakup


Logical satisfiability and criticality in algorithms for solving NP-complete problems

Fun


